

Title (en)
Wireless Spread Spectrum Communication with Centre Seeking Decorrelation

Title (de)
Drahtloses Spreizspektrumkommunikation mit Mittensuchdekorrelation

Title (fr)
Communication sans fil à spectre étalé avec décorrelation à pour-suite centrée

Publication
EP 1376970 A3 20040114 (EN)

Application
EP 03018544 A 19950825

Priority

- EP 95932334 A 19950825
- US 30409194 A 19940909
- US 48400795 A 19950607
- US 48161395 A 19950607
- US 48682795 A 19950607
- US 47646195 A 19950607
- US 48066895 A 19950607
- US 48682495 A 19950607
- US 48091495 A 19950607
- US 48016795 A 19950607
- US 48688395 A 19950607
- US 48044295 A 19950607
- US 48090395 A 19950607
- US 48044395 A 19950607
- US 48563895 A 19950607
- US 47748095 A 19950607

Abstract (en)
[origin: EP1420520A2] A method of despreading a continuous phase modulated spread spectrum signal, the spread spectrum signal generated from a sequence of odd chips and even chips, the method comprising: receiving the spread spectrum signal (401); separating (803) the spread spectrum signal into first (804) and second (805) duplicate signals; demodulating (811) the first signal into a first demodulated signal (812) using a first non-coherent local reference signal (cos omega lt); demodulating (816) the second signal into a second demodulated signal (817) using a second non-coherent local reference signal (sin omega lt), the second non-coherent local reference signal having the same frequency as the first non-coherent local reference signal but phase offset therefrom by 90 degrees; temporarily storing the first demodulated signal in a single first register (821), and temporarily storing the second demodulated signal in a single second register (827); correlating the contents of the first register to generate a first correlation signal (824) and a second correlation signal (826); correlating the contents of the second register to generate a third correlation signal (830) and a fourth correlation signal (832); and combining (839) the first, second, third and fourth correlation signals into a unified correlation signal (842). <IMAGE>

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H04L 27/233; H04B 1/707

IPC 8 full level
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CPC (source: EP KR)
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Citation (search report)

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- [A] US 5063571 A 19911105 - VANCRAEYNES JAN P [US]

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CN111901271A; US7933367B2; US7933368B2

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